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ON-LINE SCHEDULING OF CONSTRAINED DYNAMIC APPLICATIONS FOR PARALLEL TARGETS

ABSTRACT OF THE DISCLOSURE

A static schedule is selected from a set of static schedules for an application dependent on the state of the application. A scheduling system stores a set of predefined static schedules for each state of the application. A scheduling system learns the costs of predefined schedules for each state of the application on-line as the application executes. Upon the detection of a state change in the application during runtime, the scheduling system selects a new static schedule for the application. The new static schedule is determined based on schedule costs and exploration criteria.